

CLIFFORD J. SCHEXNAYDER, P.E.

EDUCATION

Ph.D., Purdue University (Construction Engineering and Management) 1980

M.S.C.E. (Construction) 1972, B.S.C.E. 1967, Georgia Institute of Technology

Air War College, Air University, Maxwell AFB, 1978

Command and General Staff Officer Course (Honor Graduate), U.S. Army C&GS College, 1977

U.S. Army Engineer School

Facilities Engineer Management Course, 1985

Advance Management Course, 1980

Engineer Officer Advance Course, 1975

CONSTRUCTION EXPERIENCE

June 1988 - August 1993, Chief Engineer, Nello L. Teer Company, Durham, North Carolina.

Officer of the Corporation and of Sloan Construction Company, Inc. (a wholly owned subsidiary company). Qualifying party for North Carolina Contractors License, unclassified. Direct line responsibility for the coordination and supervision of both the estimating and construction of major Heavy/Highway and Environmental projects.

Provided management, administrative and technical direction. Construction was monitored and controlled through on-site project managers. Approved basic construction plan and CPM schedule for all projects. Represented the company in project meetings and negotiations. Prepared the Division's annual budget and five-year plan. Managed financial aspects of contracts, budgets, and fee payment.

August 1986 - May 1988, Engineer, Granite Construction Company, Grapevine, Texas.

Established Granite's Texas estimating office in August 1986. This office was primarily responsible for working with the Heavy Division Estimating Group, located in California, in developing bids for rehabilitation and new construction of major highway and dam projects throughout Texas. Had responsibility for both site investigations and estimating.

June 1983 - July 1986, Engineer, T. L. James Company, Inc., Ruston, Louisiana.

Responsible for planning and estimating construction for major heavy construction projects: locks and dams, power plants, interstate highways, and environmental work. Owners included Transportation Departments, Corps of Engineers, and private corporations.

June 1972 - December 1977, Area Engineer, Atlas Construction Company (a subsidiary company of T. L. James Company, Inc.), Covington, Louisiana.

Responsible for field engineering and surveying on interstate highway and development projects in southeast Louisiana.

ACADEMIC EXPERIENCE

August 1994 - Present. Eminent Scholar, Del E. Webb School of Construction, Arizona State University, Tempe, Arizona.

August 1993 - August 1994. Visiting Associate Professor, Department of Civil Engineering, Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

September 1980 - May 1983. Associate Professor, Department of Civil Engineering, Louisiana Tech University, Ruston, Louisiana.

MILITARY EXPERIENCE, U. S. ARMY, CORPS OF ENGINEERS, COLONEL (RETIRED)

U. S. Army Reserve

March 1996 – March 1998, Executive Director, Directorate of Military Programs, Office of the Chief of Engineers, Washington, D. C.

May 1990 - March 1996, Deputy Commander, New England Division, Corps of Engineers, Waltham, Massachusetts.

April 1989 - May 1990, Army Engineer Staff Officer, Office of the Chief of Engineers, Washington, D. C.

June 1983 - April 1989, Assistant for Engineering, Little Rock District, Corps of Engineers, Little Rock, Arkansas.

August 1980 - May 1983, Emergency Operations Officer, Rock Island District, Corps of Engineers, Rock Island, Illinois.

Active Duty

November 1969 - September 1971, Geotechnical Research Engineer, Soil-Dynamics Branch, U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, Mississippi.

Managed the high over pressure geotechnical laboratory testing program for the ground motion and soil-structure interaction studies supporting the SAFEGUARD Ballistic Missile Defense System design and construction.

April 1967- October 1969, Several U.S. Army, Corps of Engineers assignments at various locations in the United States and Thailand.

PROFESSIONAL REGISTRATION

Professional Engineer:

Arizona #28571
Florida #43196
Georgia #18970
Indiana #18451
Louisiana #13696

North Carolina #15213
South Carolina #13009
Texas #61387
Virginia #21631

PAPERS

- Gwen Flora, James J. Ernzen and **Schexnayder, Cliff**, "Field-level Management's Perspective of Design-Build," *Practice Periodical on Structural Design & Construction, ASCE*, Vol. 3, No. 4, Nov. 1998.
- Ohrn, L. Greg and **Schexnayder, Cliff**, "Performance-Related Specifications for Highway Construction," *Journal of Construction Engineering and Management, ASCE*, Vol. 124, No. 1, Feb. 1998.
- Schexnayder, Cliff** and Ohrn, L. Greg, "Highway Specifications - Quality vs Pay," *Journal of Construction Engineering and Management, ASCE*, Vol. 123, No. 4, Dec. 1997.
- Ohrn, L. Greg and **Schexnayder, Cliff**, "Effect of Performance-Related Specifications on Highway Construction," *Practice Periodical on Structural Design & Construction, ASCE*, Vol. 2, No. 4, Nov. 1997.
- Walker, Kenneth K., **Schexnayder, Cliff**, Mayo, Richard E., and Walsh, Kenneth D., "Methods and Procedural Considerations in Demolishing Tall Concrete," *Journal of Construction Engineering and Management, ASCE*, Vol. 122, No. 3, Sept. 1996.
- Lukas, Robert G. and **Schexnayder, Cliff**, "Dynamic Compaction of Nuclear Waste Deposits," *Stabilization and Solidification of Hazardous Radioactive and Mixed Wastes, ASTM STP1123*, 2nd Vol., January 1992.
- Steward, Rita F. and **Schexnayder, Cliff J.**, "Construction Techniques for Roller-Compacted Concrete," *Roller-Compacted Concrete Pavements and Construction*, Transportation Research Record 1062, Transportation Research Board, National Research Council, 1986.
- Steward, Rita F. and **Schexnayder, Cliff J. Jr.**, "Production Estimating for Draglines," *Journal of Construction Engineering and Management, ASCE*, Vol. III, No. 1, March 1985.
- Schexnayder, C. J.** and Hancher, Donn E., "Contractor Equipment Management Practices," *Journal of the Construction Division, Proceedings, ASCE*, Vol. 107, No. CO4, December 1981.

BOOKS AUTHORED

- Peurifoy, Robert L., Ledbetter, William B., and **Schexnayder, Cliff J.**, *Construction Planning, Equipment & Methods*, Fifth Edition, McGraw-Hill, Inc., November 1995.

PAPERS PRESENTED

- Schexnayder, Cliff J.**, "Mitigation of Nighttime Construction Nuisances," 1998 American Association State Highway and Transportation Officials Subcommittee for Construction midyear meeting, Portland, Maine, August 13, 1998.
- Schexnayder, Cliff J.**, "Equipment Rental Rates, Understanding the Effect of Assumptions," *Equipment Resources Management Into The 21st Century, Conference Proceedings, ASCE*, 1995. (Nashville, TN, November 13-15, 1994)

Schexnayder, Cliff J., "Kaolin Clay as a Containment Barrier, Specifications & Construction," Clay Minerals Society, 30th Annual Meeting, San Diego, California, September 1993.

Schexnayder, Cliff and Wahls, Harvey E., "Construction of a Kaolin Clay Cap for Buried Nuclear Waste," *Design and Construction Issues at Hazardous Waste Sites, Conference Proceedings*, U. S. Environmental Protection Agency, Washington D. C., EPA/540/8-91/012, May 1991. (Conference, Dallas, Texas, 1 May 1991)

Lewis, Chris R. and **Schexnayder, Cliff J.**, "Production Analysis of the CAT 245 Hydraulic Hoe," *Proceedings of the Conference on Earthmoving and Heavy Equipment, ASCE*, February 1986.

Schexnayder, Cliff J., "Excavation Equipment Session Summary," *Proceedings of the Conference on Earthmoving and Heavy Equipment, ASCE*, February 1986.

Schexnayder, Cliff J., "Project Finance Session Summary," *Proceedings of the Conference on Earthmoving and Heavy Equipment, ASCE*, February 1986.

RESEARCH PANELS

National Cooperative Highway Research Program

Quality Assurance of structural Materials (SP20-5), member (1998-present).

Constructibility Review Process for Transportation Facilities (D10-42), member (1994-96).

PROFESSIONAL COMMITTEE SERVICE

American Society of Civil Engineers, Fellow (1967-present).

Technical Activities Committee, member (1998-present)

Management Group E, member (1994-1997).

Construction Division Executive Committee (1986-1992), chairman (1991).

Committee on Construction Equipment and Techniques (1978-1988), chairman (1982-1986).

Committee on Environmental Geotechnics, member (1993-1997).

Transportation Research Board

Group 2 – Design and Construction of Transportation Facilities, Council, (Feb 1997-present)

Section A2F00, Construction, Chair (Feb 1997-present)

Committee on Construction Equipment (A2F06) (1982-present), Chairman (1994-1997).

Committee on Transportation Earthworks, (A2K02), member (1991-present).

Task Force on Improving and Retaining the Technical Competence of Field Personnel in Flexible Pavement Construction (Gp2, Sect. D, A2D51) (1987-1990).

National Council of Examiners for Engineering and Surveying

Committee Reviewer (1995-present).

Society of Highway Engineers

Carolina Triangle Section, (1991-1994)

North Carolina Aggregates Association

Technical Task Force, (1991-1992)

SHORT COURSE DEVELOPMENT AND INSTRUCTION

"Tenth International Road Federation Executive Conference on Road Management," a two-week seminar sponsored by Arizona State University, October, 1996. Instructor.

"Soil Cement & Roller-Compacted Concrete (RCC) Bank Protection Short Course and Tour," a two day seminar sponsored by the Del E. Webb School of Construction, and the Portland Cement Association, Tempe, Arizona, April, 1996. Co-chairman and Instructor.

"Ninth International Road Federation Executive Conference on Road Management," a two-week seminar sponsored by Arizona State University, November, 1995. Instructor.

"ACEM Executive Development Program," two, 4-day seminars sponsored by The Assoc. of Construction Equipment Managers and Virginia Tech Univ., March & May 1994. Co-Director and instructor ownership & operating cost and production estimating modules.

"VDOT Spring Leadership Program," ten day seminar sponsored by The Virginia Department of Transportation and Virginia Tech University, Blacksburg, Virginia, February 9-18, 1994. Co-Director and instructor for 6 hour estimating module and 4 hour case study module.

North Carolina Aggregates Association/National Stone Association, Regional Technical Pavements Conference, *Aggregate Base Course Construction*, "Placement/Compaction/Density", Hour and a quarter module. Raleigh, NC, Jan., 1992.

"Roller-Compacted Concrete III," Specialty Conference, sponsored by the Construction, Geotechnical Engineering and Materials Engineering Divisions of the American Society of Civil Engineers, at San Diego, California, 2 - 5 February, 1992, Co-Chairman.

CONSULTING ASSIGNMENTS

Barnhill Construction Company, Expert Witness in a civil suite involving construction safety contractual requirements, North Carolina, April 1996.

Barnhill Construction Company, Expert Witness in a civil suite involving asphalt construction techniques and contractual requirements, Fayetteville, North Carolina, February 1994.

Phillips & Jordan Construction Company, Knoxville, Tennessee, Management overview of construction estimates for North Carolina projects, March 1994 to December 1994.

Hubbard Construction Company, Expert Witness in an arbitration involving variance in compaction specifications and the affect of construction effort, Orlando, Florida, July 1994.

C. C. Mangum Inc., Expert Witness in a civil suite involving highway construction techniques, survey responsibility and practice, and contractual requirements, Research Triangle Park, North Carolina, January to June 1994.

West Equipment Company, Claims preparation review, appeal of engineer's determination of extra work requirements for a clearing and earthwork contract, Concord, North Carolina, March 1994.